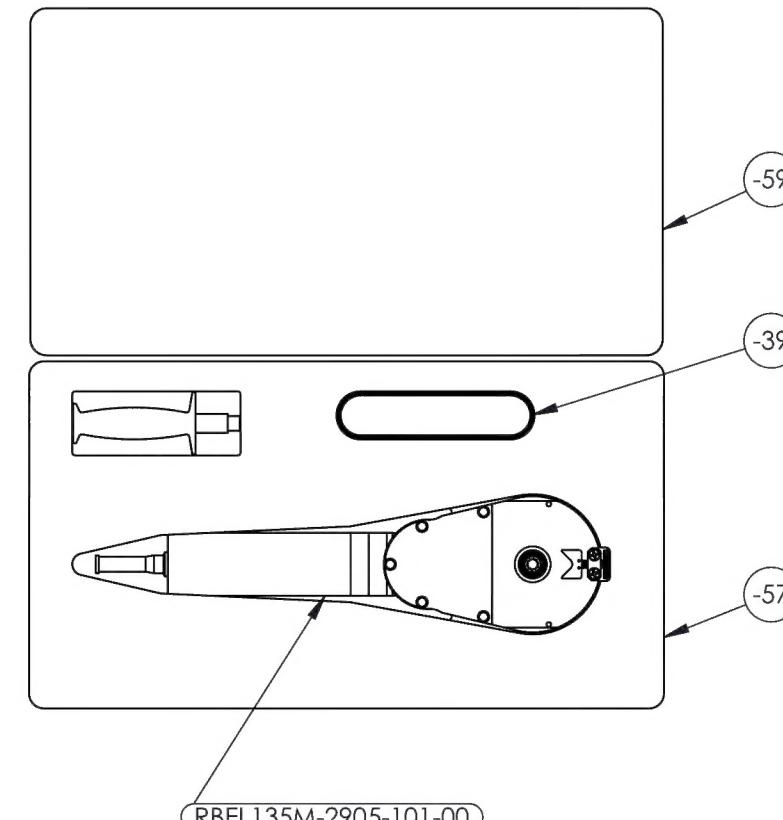


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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		CHANGED MOTORS FROM FLEX #L3309FR TO MILWAUKEE #6116-33. ALSO CHANGED PULLEY SIZE TO ADJUST FOR THE 1,000 RPM DIFFERENCE. DRIVER PULLEY -09 WAS Ø1.495 NOW Ø1.603, AND DRIVEN 07 WAS Ø4.173 NOW Ø4.065. ALSO -07 Ø3.671 (x2) IS NOW Ø3.779 (x2).	5/12/2010	WP	DW
2		CHANGED -13 MOTOR CLAMP TO FIT NEW MOTOR & MOVED -01 CASE M6 HOLE UP .071 FROM B.C. Ø3.206. ALSO REPLACED (3) -33 HEX HEAD CAP SCREW WITH -54 SOCKET HEAD CAP SCREW.	9/14/2010	WP	DW
2A		ADDED OPTIONAL 2 UNIT KIT WITH HARD CASE, AND CHANGED FROM 5 PAGES TO 8.	9/16/2010	WP	
3		ADDED COMPARTMENT FOR HANDLES TO -101-43 PER D.W.	12/10/2010	RJC	RW
4		CH'D -25 QTY. FROM 1 TO 2, LABELED -01 SECTION C-C, CH'D -05 COUNTERSINK FROM Ø.276 TO Ø.310, CH'D -07 Ø17mm TO Ø.6688 +.0005 -.0000, ADDED -07 (.141) DIM., CH'D -13 CUT REF. DIM. FROM .08 & .076 TO .093. ALL CHANGES PER G.E.	12/29/2010	RJC	RW
5		ADDED -00 ASSY, 2 EA, TO BOM, DOUBLED ALL BUYOUT QUANTITIES, DELETED RBEL135M2905-101-B, CH'D -05 DIM. FROM Ø.267 P.F. -23 TO LIMIT DIM. .2666 -.2660, ADDED -11 & -07 NICKLE PLATE THICKNESS .0004 -.0006, ADDED -19 NICKLE PLATE THICKNESS .0004 -.0006, CH'D -19 DIM. FROM .392 S.F. -21 TO LIMIT .3914 -.3905, ADDED -21 NICKLE PLATE THICKNESS .0004 -.0006, CH'D -21 DIM. FROM .393. S.F. -19 TO LIMIT DIM. .3944 -.3930. CH'D -23 DIM. FROM BASIC .267 TO Ø.2674 -.2670.	12/20/2012	RJC	SE
5A		-05 DELETED Ø3.149. SEPERATED PARTS ONTO INDIVIDUAL PAGES.	2/26/2013	BIM	GE
6		ADDED PARTS -14 & -42 FOR USE WITH GRINDER MODEL MILWAUKEE #6117-33. ADDED NOTES 3 & 4 SHEET 1. ADDED NOTES 1 & 2 SHEET 2. REDRAWN WAS AUTO CAD IS SOLIDWORKS.	7/29/2013	CFS	DW
7		CH'D P/N WAS RBEL135M2905-101 IS RBEL135M-2905-101. -21 CH'D CORNER WAS NO RADIUS IS 2X R.13.	10/9/2013	CFS	GE
8		-17 CH'D DIMENSION WAS SØ .46 IS SØ .50. -17 CH'D DIMENSION WAS 1.181 IS 1.18.	6/16/2014	DJN	GE
9	16-0222	DELETED NOTES 3, 4, & 5 SHEET 1. DELETED NOTES 1 & 2 SHEET 2. CH'D HYDRAULIC PUMP DRIVE TOOL ASSY. TO -00 & CH'D QTY WAS 2 IS 1. -01 CH'D DIM WAS 2X Ø30mm Ø.276 P.F. -27 IS 2X Ø1.180/1.179 Ø.279 (P.F. -27). ADDED THREAD FIT. -03 CH'D DIM WAS (.125) IS .13, WAS (2X 13°) IS 2X 13°. -05 CH'D DIM WAS Ø.2666/2660 IS Ø.2666/2660 (P.F. -23). -07, -19, -21 CH'D MATERIAL WAS 1018 IS 1018/1020 CR. -07, -11, -19, -21 CH'D FINISH WAS NICKEL PLATE IS ZINC PLATE ASTM B633 TYPE 1 SC2. -11 CH'D DIM WAS .276 IS 2X .276, WAS 2X Ø.250 THRU ALL Ø.482 X 90° IS 2X Ø.25 CUT RELIEF IS .09 TWO INSTANCES. -14 CH'D DIM WAS .09 CUT REF. IS .09 DELETED NOTE 1. -15 CH'D DIM WAS 2X Ø.0786/0782 THRU IS 2X Ø.0786/0782 THRU ALL (P.F. -53). -17 CH'D DIM WAS M8X1.25 IS (M8X1.25). -19 CH'D DIM WAS .195 IS 3X .165. -21 CH'D DIM WAS .276 IS 2X .276, DELETED DIM Ø.217, ADDED DIM .217 2X FULL R. -23 CH'D DIM WAS Ø.2674/2670 IS Ø.2674/2670 (P.F. -05). -39 CH'D ASSY QTY. WAS 2 IS 1 ADDED QTY. 1 FOR SPARE. -41 DELETED. -43 CH'D B/O P/N WAS MILWAUKEE #6116-33 IS MILWAUKEE #6117-33. -57 CH'D FOAM SIZE FOR NEW CASE #APP-1605-E, AND LAYOUT CONFIGURATION FOR ONE -00 HYDRAULIC PUMP DRIVE TOOL. -59 CH'D FOAM SIZE FOR NEW CASE #APP-1605-E. -61 RB41009 IS RB41011. -45, -57, -59 CH'D DWG TO SHEET METAL TOLERANCE.	11/23/2016	RJC	SM

ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
X	-00	1			HYDRAULIC PUMP DRIVE TOOL			2
1	-01				CASE	6061		3
1	-03				BOTTOM COVER	6061		4
1	-05				TOP COVER	6061		5
1	-07				GEARED PULLEY	1018/1020 CR		6
1	-09				DRIVE PULLEY	6061		7
1	-11				CLAMP TOP	A36/1018/1020 HR		8
1	-13				MOTOR CLAMP	6061		9
1	-14				COLLAR	6061		10
1	-15				CLAMP	6061		11
1	-17				THUMB SCREW	S.S.	M8 X 1.25 X 30mm (J.W. WINCO #8N30F48S) MODIFIED	12
2	-19				SLIDE GUIDE	1018/1020 CR		13
2	-21				SLIDE	1018/1020 CR		14
1	-23				PIN	303/304		15
2	B/O -25				THREADED KNOB		M5 X .08 X 16mm (J.W. WINCO #5N16DD1)	2
2	B/O -27				BEARING		6903RU (MCMASTER-CARR #5972K289)	2
2	B/O -29				FLAT HEAD MACHINE SCREW	STEEL	M4 X 0.7 X 10mm (MCMASTER-CARR #91420A220)	2
2	B/O -31				FLAT HEAD MACHINE SCREW	STEEL	M4 X 0.7 X 8mm (MCMASTER-CARR #91420A218)	2
10	B/O -33				HEX HEAD CAP SCREW	STEEL	M6 X 1 X 10mm (MCMASTER-CARR #91280A322)	2
13	B/O -35				FLAT WASHER	STEEL	Ø6mm (MCMASTER-CARR #91166A250)	2
1	B/O -37				EXTERNAL SNAP RING	S.S.	Ø17mm (SHAFT) (MCMASTER-CARR #90967A210)	2
1	B/O -39	1			POLY-V GROOVE BELT	NEOPRENE	180J4 (MCMASTER-CARR #9003K41)	2
1	B/O -42				FLAT WASHER	STEEL	Ø5/8 X .063 thick (AIRCRAFT SPRUCE #AN960-1016)	2
1	B/O -43				SMALL ANGLE GRINDER MOTOR		MILWAUKEE #6117-33	2
1	B/O -45				ARROW EMBLEM	VINYL	1/16 X 1/2 X 2-1/2 (SIGNS NOW)	16
1	B/O -47				HEX HEAD CAP SCREW	STEEL	M8 X 1.25 X 25mm (MCMASTER-CARR #91280A534)	2
1	B/O -49				FLAT WASHER	STEEL	Ø8mm (MCMASTER-CARR #91166A270)	2
2	B/O -51				FLAT HEAD MACHINE SCREW	STEEL	M6 X 1 X 25mm (MCMASTER-CARR #91420A430)	2
2	B/O -53				DOWEL PIN	S.S.	Ø2mm X 12mm (MCMASTER-CARR #91585A010)	2
3	B/O -54				SOCKET HEAD CAP SCREW	S.S.	M6 X 1 X 10mm (MCMASTER-CARR #91292A441)	2
	B/O -55	1			CASE	PLASTIC	PELICAN #APP-1605-E	N/S
	B/O -57	1			BOTTOM TOOL CUSHION	ETHAFOAM 220, BLACK	6.39 X 14.45 X 26.45 (CASE SOLUTIONS)	17
	B/O -59	1			TOP FOAM	ETHAFOAM 220, BLACK	2.01 X 14.52 X 26.35 (CASE SOLUTIONS)	18
	B/O	1			DART PLACARD	ALUMINUM	RB41011	N/S
ASSY -00								



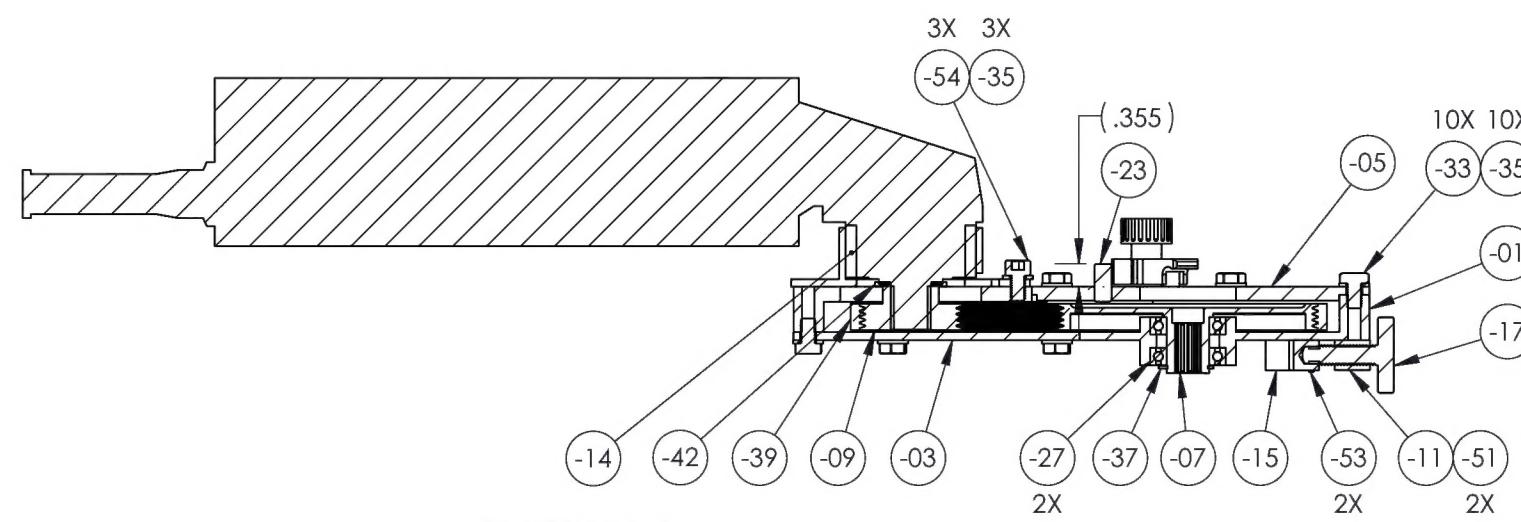
RBEL135M-2905-101-00

<b>DART AEROSPACE</b>	
<b>TITLE</b> HYDRAULIC PUMP DRIVE TOOL	
<b>DWG NO.</b> RBEL135M-2905-101	
<b>REV</b>	9
<b>MAT'L</b> UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES $.000 \pm .005$ FRACTIONS $\pm 1/8$ $.000 \pm .01$ ANGLES $\pm 5^\circ$ $x \pm .1$ SURFACES = 125/V	
<b>SPEC</b>	
1. BREAK ALL SHARP EDGES	
.015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
<b>DRAWN BY:</b>	CLOUGH
<b>CHECKED:</b>	DUERFELDT
<b>OPPS APPR:</b>	ANDERSON
<b>QA APPR:</b>	LINDSAY
USED ON MODEL	
<b>APPROVED:</b>	MACKOVJAK
<b>SCALE</b>	1:8
<b>DATE</b>	11/28/2016
<b>SHEET 1 OF 18</b>	

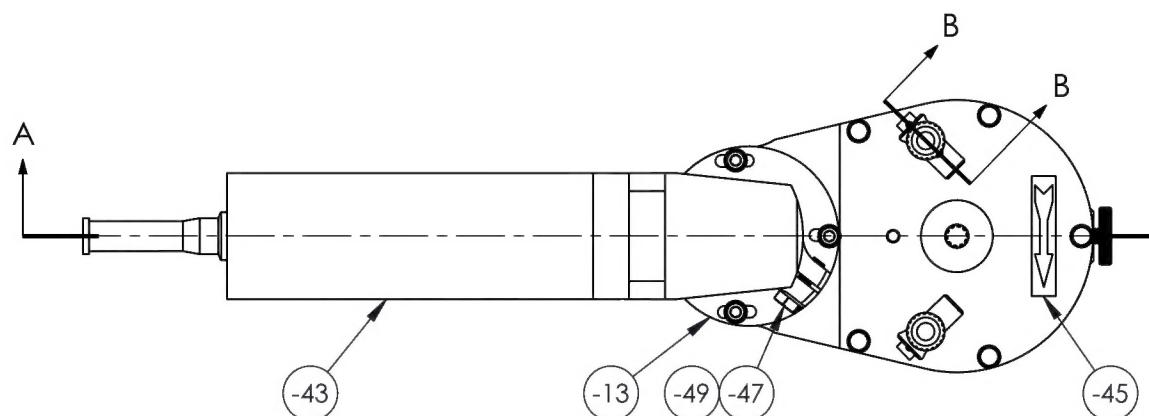
<b>DART AEROSPACE</b>	
<b>TITLE</b> HYDRAULIC PUMP DRIVE TOOL	
<b>DWG NO.</b> RBEL135M-2905-101	
<b>REV</b>	9
<b>MAT'L</b> UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES $.000 \pm .005$ FRACTIONS $\pm 1/8$ $.000 \pm .01$ ANGLES $\pm 5^\circ$ $x \pm .1$ SURFACES = 125/V	
<b>SPEC</b>	
1. BREAK ALL SHARP EDGES	
.015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
<b>DRAWN BY:</b>	CLOUGH
<b>CHECKED:</b>	DUERFELDT
<b>OPPS APPR:</b>	ANDERSON
<b>QA APPR:</b>	LINDSAY
USED ON MODEL	
<b>APPROVED:</b>	MACKOVJAK
<b>SCALE</b>	1:8
<b>DATE</b>	11/28/2016
<b>SHEET 1 OF 18</b>	

<b>DART AEROSPACE</b>	
<b>TITLE</b> HYDRAULIC PUMP DRIVE TOOL	
<b>DWG NO.</b> RBEL135M-2905-101	
<b>REV</b>	9
<b>MAT'L</b> UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES $.000 \pm .005$ FRACTIONS $\pm 1/8$ $.000 \pm .01$ ANGLES $\pm 5^\circ$ $x \pm .1$ SURFACES = 125/V	
<b>SPEC</b>	
1. BREAK ALL SHARP EDGES	
.015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
<b>DRAWN BY:</b>	CLOUGH
<b>CHECKED:</b>	DUERFELDT
<b>OPPS APPR:</b>	ANDERSON
<b>QA APPR:</b>	LINDSAY
USED ON MODEL	
<b>APPROVED:</b>	MACKOVJAK
<b>SCALE</b>	1:8
<b>DATE</b>	11/28/2016
<b>SHEET 1 OF 18</b>	

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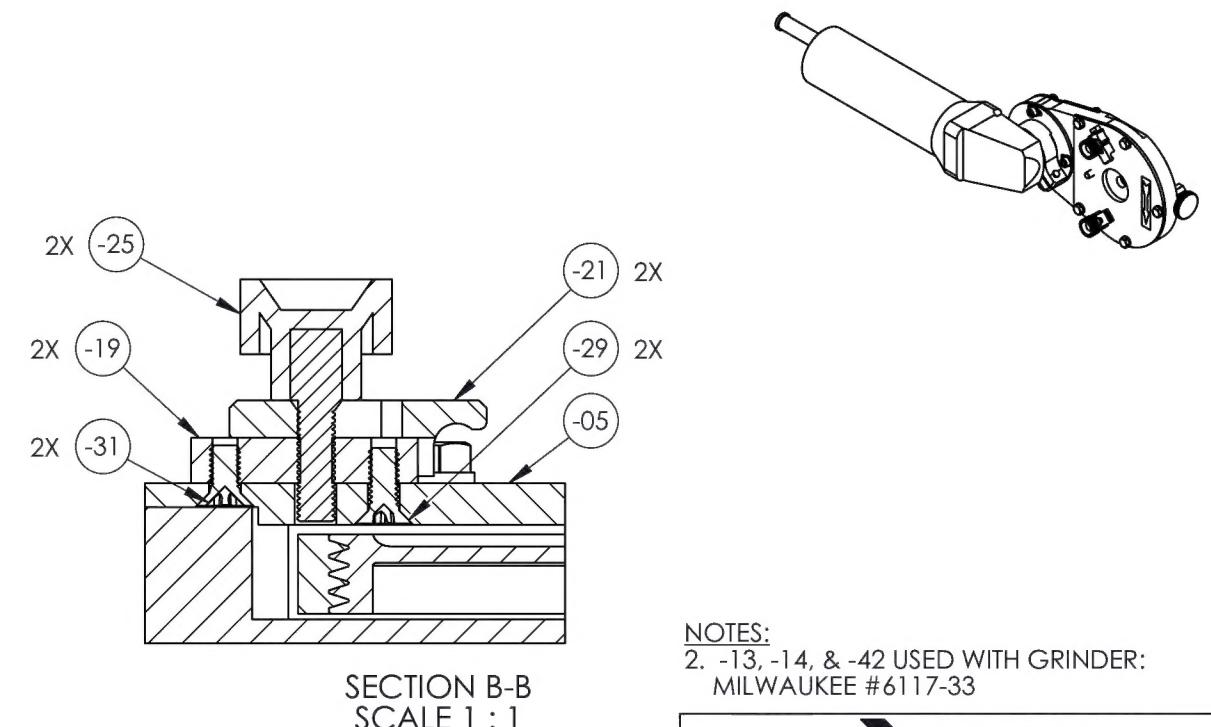


SECTION A-A  
SCALE 1 : 3



(-00)  
HYDRAULIC PUMP DRIVE TOOL

REVISIONS		
REV	ECR	DESCRIPTION
1		CHANGED MOTORS FROM FLEX #L3309FR TO MILWAUKEE #6116-33. ALSO CHANGED PULLEY SIZE TO ADJUST FOR THE 1,000 RPM DIFFERENCE. DRIVER PULLEY -09 WAS Ø 1.495 NOW Ø 1.603, AND DRIVEN 07 WAS Ø 4.173 NOW Ø 4.065. ALSO -07 Ø 3.671 (x2) IS NOW Ø 3.779 (x2).
2		CHANGED -13 MOTOR CLAMP TO FIT NEW MOTOR & MOVED -01 CASE M6 HOLE UP .071 FROM B.C. Ø 3.206. ALSO REPLACED (3) .33 HEX HEAD CAP SCREW WITH .54 SOCKET HEAD CAP SCREW.
2A		ADDED OPTIONAL 2 UNIT KIT WITH HARD CASE, AND CHANGED FROM 5 PAGES TO 8.
3		ADDED COMPARTMENT FOR HANDLES TO -101-43 PER D.W.
4		CH'D -25 QTY. FROM 1 TO 2, LABELED -01 SECTION C-C, CH'D -05 COUNTERSINK FROM Ø .276 TO Ø .310, CH'D -07 Ø 17mm TO Ø .6688 +.0005 -.0000, ADDED -07 (.414) DIM., CH'D -13 CUT REF. DIM. FROM .08 & .076 TO .093. ALL CHANGES PER G.E.
5		ADDED -00 ASSY, 2 EA, TO BOM, DOUBLED ALL BUYOUT QUANTITIES, DELETED RBEL135M2905-101-B. CH'D -05 DIM. FROM Ø .267 P.F. -23 TO LIMIT DIM. .2666 - .2660. ADDED -11 & -07 NICKLE PLATE THICKNESS .0004 - .0006. ADDED -19 NICKLE PLATE THICKNESS .0004 - .0006. CH'D -19 DIM. FROM .392 S.F. -21 TO LIMIT .3914 - .3905. ADDED -21 NICKLE PLATE THICKNESS .0004 - .0006. CH'D -21 DIM. FROM .393. S.F. -19 TO LIMIT DIM. .3944 - .3930. CH'D -23 DIM. FROM BASIC .267 TO Ø .2674 - .2670.
5A		-05 DELETED Ø 3.149. SEPERATED PARTS ONTO INDIVIDUAL PAGES.
6		ADDED PARTS -14 & -42 FOR USE WITH GRINDER MODEL MILWAUKEE #6117-33. ADDED NOTES 3 & 4 SHEET 1. ADDED NOTES 1 & 2 SHEET 2. REDRAWN WAS AUTO CAD IS SOLIDWORKS.
7		CH'D P/N WAS RBEL135M2905-101 IS RBEL135M-2905-101. -21 CH'D CORNER WAS NO RADIUS IS 2X R.13.
8		-17 CH'D DIMENSION WAS SØ .46 IS SØ .50. -17 CH'D DIMENSION WAS 1.181 IS 1.18.
9	16-0222	DELETED NOTE 1SHEET 2, CH'D HYDRUALIC PUMP DRIVE TOOL ASSY. TO -00 & CH'D QTY WAS 2 IS 1. -39 CH'D. ASSY QTY. WAS 2 IS 1 ADDED QTY. 1 FOR SPARE. -41 DELETED. -43 CH'D B/O P/N WAS MILWAUKEE #6117-33 IS MILWAUKEE #6116-33. CH'D PLACARD WAS -61 RB41009 IS RB41011.

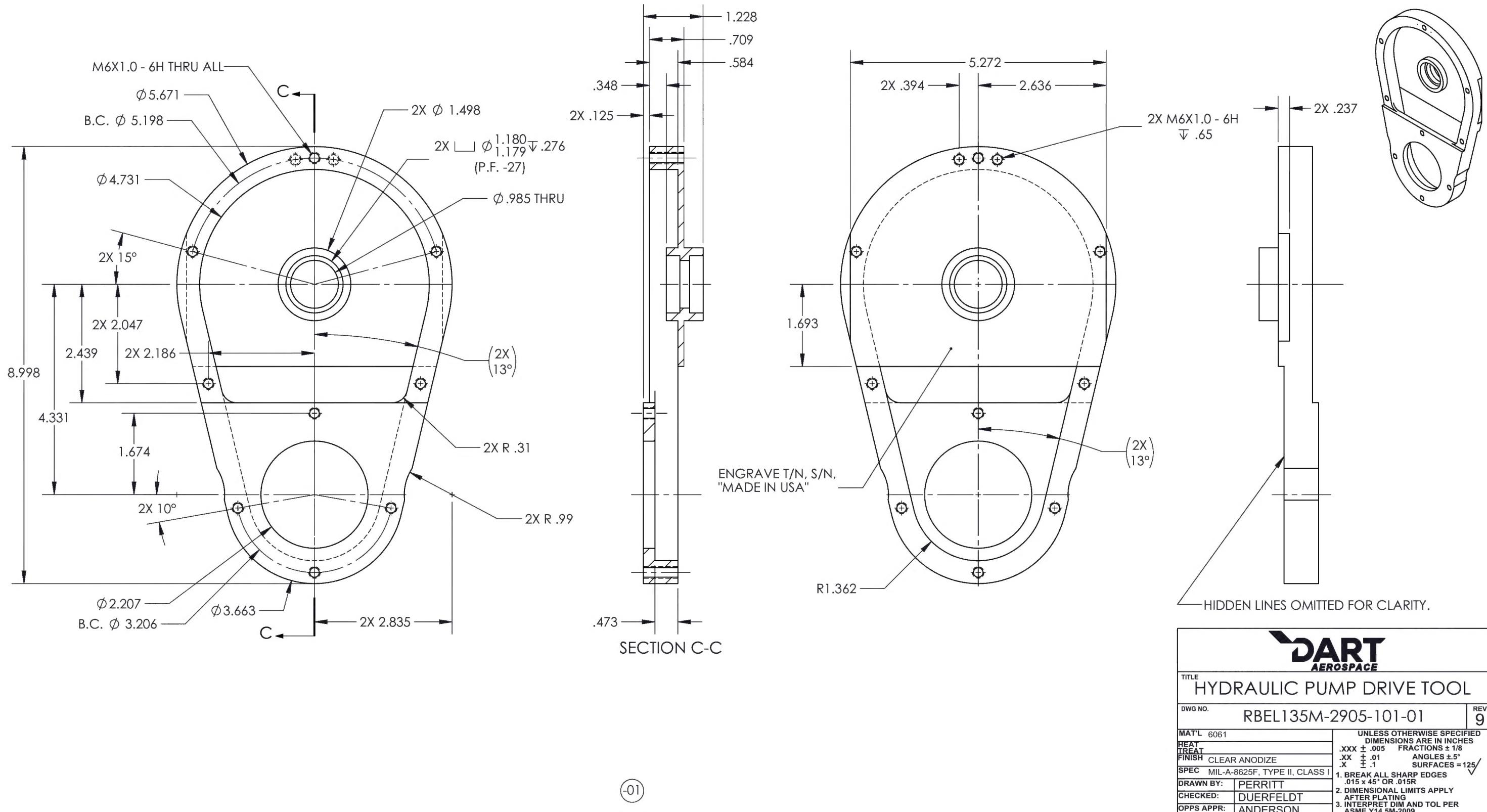


NOTES:  
2. -13, -14, & -42 USED WITH GRINDER:  
MILWAUKEE #6117-33

TITLE		DART AEROSPACE
DWG NO.		REV
RBEL135M-2905-101-00		9
MAT'L		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
HEAT		.XXX ± .005 FRACTIONS ± 1/8
TREAT		.XX ± .01 ANGLES ± 5°
FINISH		X ± .1 SURFACES = 125
SPEC		1. BREAK ALL SHARP EDGES 2. DIMENSIONAL LIMITS APPLY 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
DRAWN BY:	PERRITT	.015 x 45° OR. 015R
CHECKED:	DUERFELDT	AFTER PLATING
OPPS APPR:	ANDERSON	USED ON MODEL
QA APPR:	LINDSAY	
APPROVED:	MACKOVJAK	
SCALE	1:4	DATE 4/23/2010
		SHEET 2 OF 18

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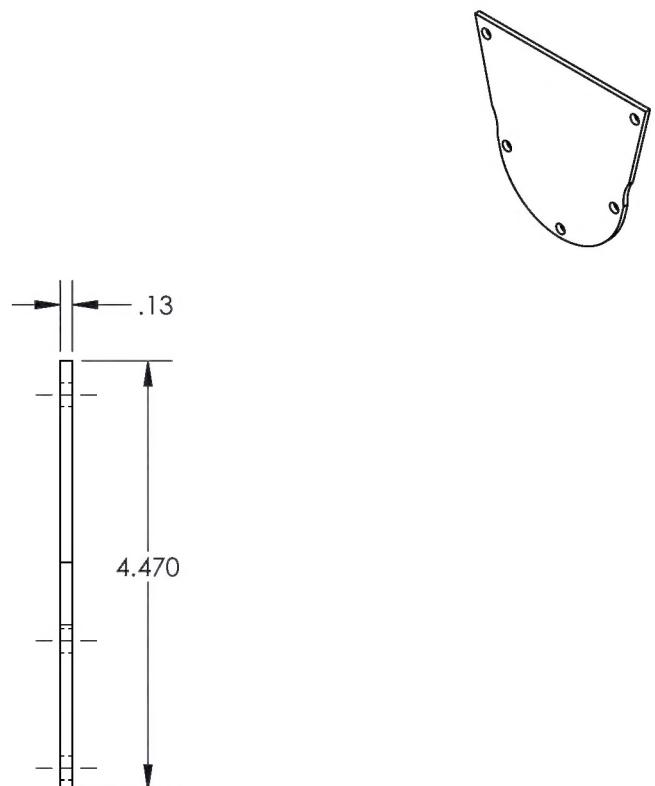
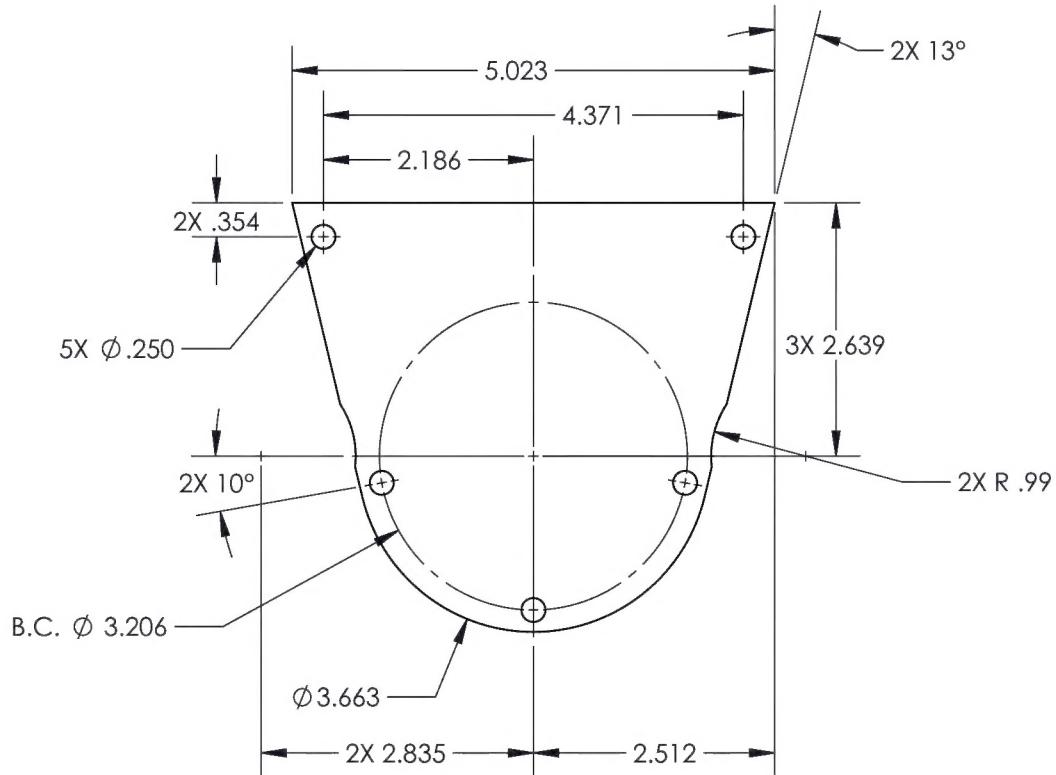
REVISIONS		
REV	ECR	DESCRIPTION
2		-01 CASE M6 HOLE UP .071 FROM B.C. Ø3.206.
4		-01 LABELED SECTION VIEW C-C.
9	16-0222	-01 CH'D DIM WAS 2X Ø30mm $\nabla$ .276 P.F. -27 IS 2X Ø1.180/1.179 $\nabla$ .279 (P.F. -27), ADDED THREAD FIT.



DART AEROSPACE	
TITLE	
HYDRAULIC PUMP DRIVE TOOL	
DWG NO.	RBEL135M-2905-101-01
REV	9
MATERIAL 6061 UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
HEAT TREAT XXX $\pm$ .005 FRACTIONS $\pm$ 1/8	
FINISH CLEAR ANODIZE XX $\pm$ .01 ANGLES $\pm$ 5°	
SPEC MIL-A-8625F, TYPE II, CLASS I X $\pm$ .1 SURFACES = 125	
DRAWN BY:	PERRITT
CHECKED:	DUERFELDT
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	MACKOVJAK
USED ON MODEL	EUROCOPTER EC135
SCALE	1:2
DATE	4/23/2010
SHEET	3 OF 18

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REV			ECR			DESCRIPTION			DATE			INITIAL			APPROVED		
9	16-0222		<b>-03</b> CH'D DIM WAS (.125) IS .13. WAS (2X 13°) IS 2X 13°.						11/23/2016			RJC			SM		



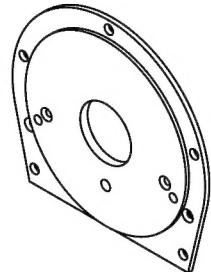
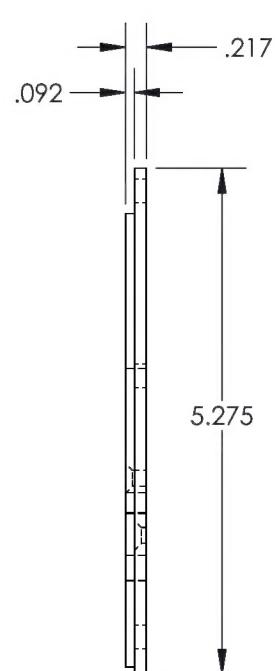
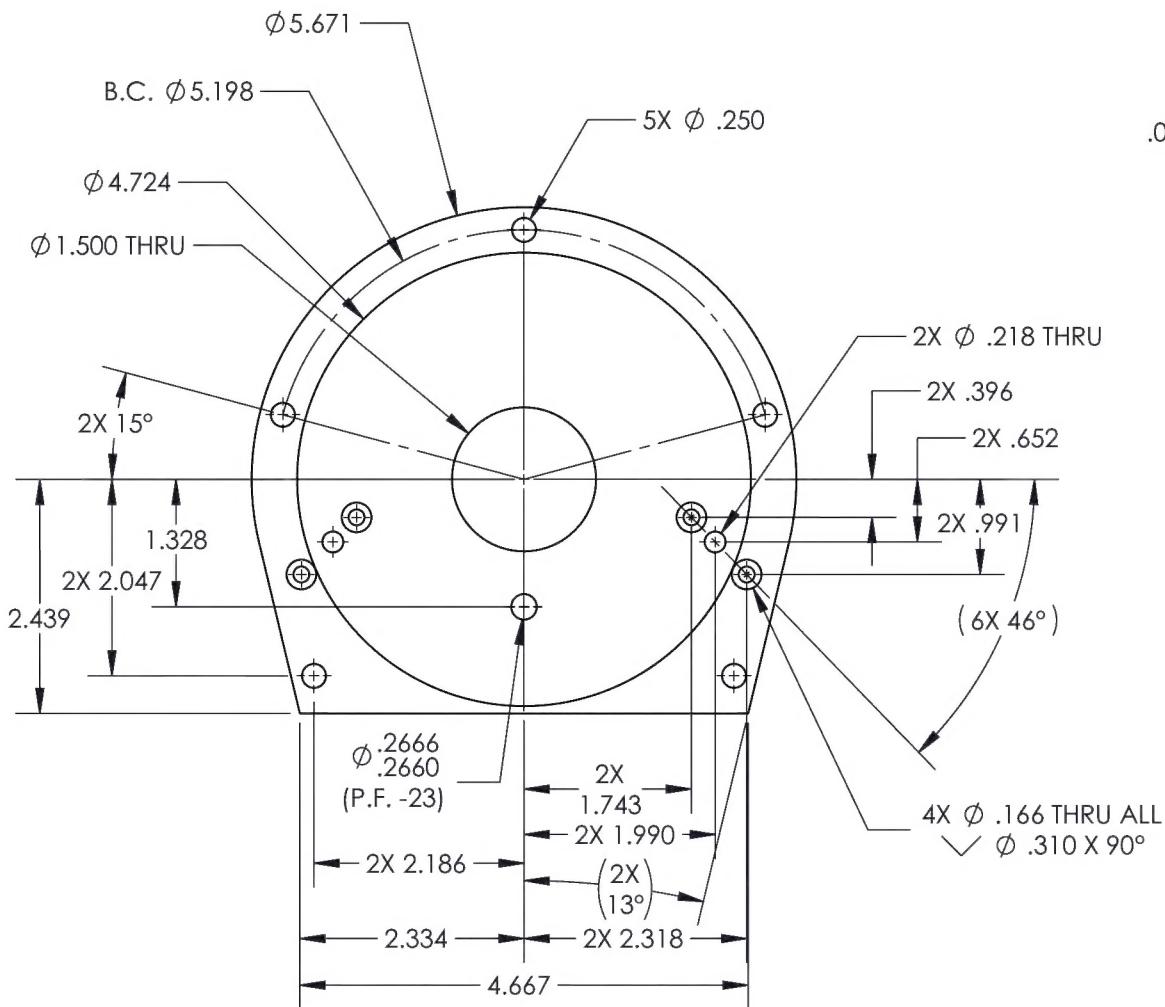
(-03)

BOTTOM COVER

DART AEROSPACE	
TITLE	
HYDRAULIC PUMP DRIVE TOOL	
DWG NO.	RBEL135M-2905-101-03
REV	9
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
HEAT	.XXX ± .005 FRACTIONS ± 1/8
TREAT	.XX ± .01 ANGLES ± 5°
FINISH	X ± .1 SURFACES = 125
SPEC	MIL-A-8625F, TYPE II, CLASS I
DRAWN BY:	PERRITT
CHECKED:	DUERFELDT
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	MACKOVJAK
USED ON MODEL	
EUROCOPTER EC135	
SCALE	1:2
DATE	4/23/2010
SHEET 4 OF 18	

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REV			ECR			DESCRIPTION			REVISIONS		
									DATE	INITIAL	APPROVED
4						-05 CH'D COUNTERSINK FROM Ø.276 TO Ø.310.			12/29/2010	RJC	RW
5						-05 CH'D DIM FROM Ø.267 P.F.			10/20/2012	RJC	SE
5A						-05 DELETED DIM Ø3.149.			2/26/2013	BIM	GE
9	16-0222					-05 CH'D DIM WAS Ø.2666/.2660 IS Ø.2666/.2660 (P.F. -23).			11/23/2016	RJC	SM



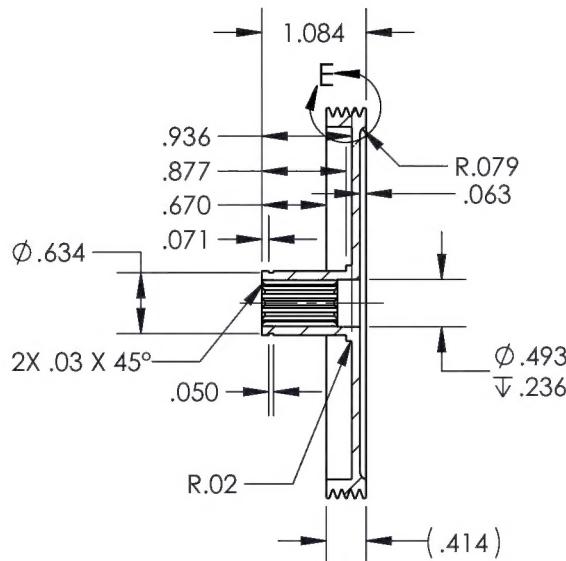
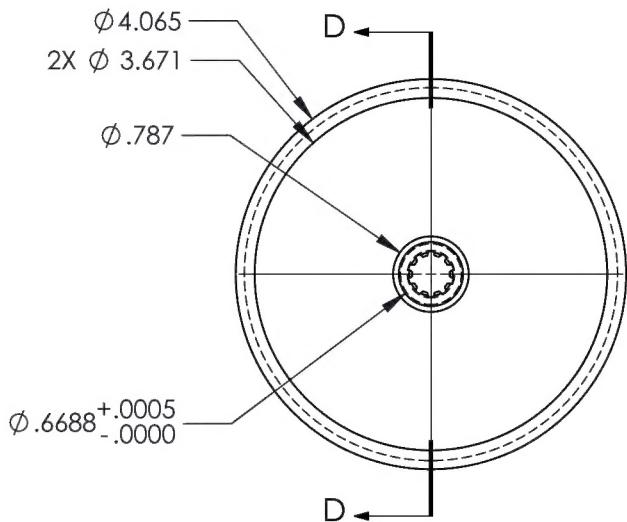
(-05)

TOP COVER

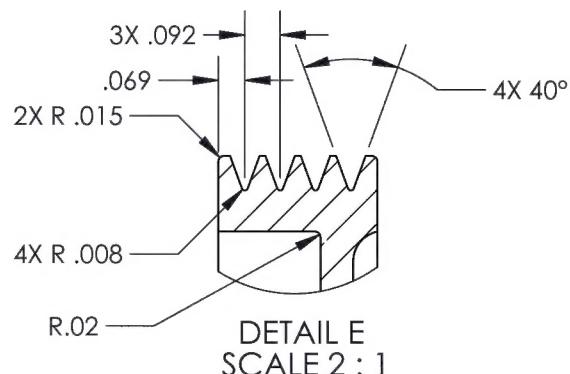
TITLE		DART AEROSPACE
DWG NO.		RBEL135M-2905-101-05
REV		9
MAT'L 6061		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
HEAT .XXX ± .005 FRACTIONS ± 1/8		
TREAT .XX ± .01 ANGLES ± 5°		
FINISH CLEAR ANODIZE .X ± .1 SURFACES = 125 ✓		
SPEC MIL-A-8625F, TYPE II, CLASS I		
DRAWN BY: PERRITT		
CHECKED: DUERFELDT		
OPPS APPR: ANDERSON		
QA APPR: LINDSAY USED ON MODEL		
APPROVED: MACKOVJAK EUROCOPTER EC135		
SCALE	1:2	DATE 4/23/2010
SHEET 5 OF 18		

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		CHANGED MOTORS FROM FLEX #L3309FR TO MILWAUKEE #6116-33, ALSO CHANGED PULLEY SIZE TO ADJUST FOR THE 1,000 RPM DIFFERENCE.DRIVEN 07 WAS $\phi 4.173$ NOW $\phi 4.065$ . ALSO -07 $\phi 3.671$ (x2) IS NOW $\phi 3.779$ (x2).	5/12/2010	WP	DW
4		CH'D -07 $\phi 17$ mm TO $\phi .6688 +.0005 -.0000$ , ADDED -07 (.414) DIM, ALL CHANGES PER G.E.	12/29/2010	RJC	RW
5		ADDED -07 NICKLE PLATE THICKNESS .0004 -.0006.	12/20/2012	RJC	SE
9	16-0222	-07 CH'D MATERIAL WAS 1018 IS 1018/1020 CR, CH'D FINISH WAS NICKEL PLATE IS ZINC PLATE ASTM B633 TYPE I SC2.	11/23/2016	RJC	SM



SECTION D-D



DETAIL E  
SCALE 2 : 1

(-07)

GEARED PULLEY



#### SPUR GEAR DATA

NO. OF TEETH	10
MOD	1.0
THREE TEETH	.303
PITCH DIA.	.428
DIAMETRAL PITCH	7
PRESSURE ANGLE	30°
MAJOR DIAMETER	.480
MINOR DIAMETER	.395
CASTING OF	INTERNAL GEAR
GEAR STANDRAD	5480

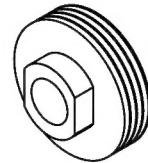
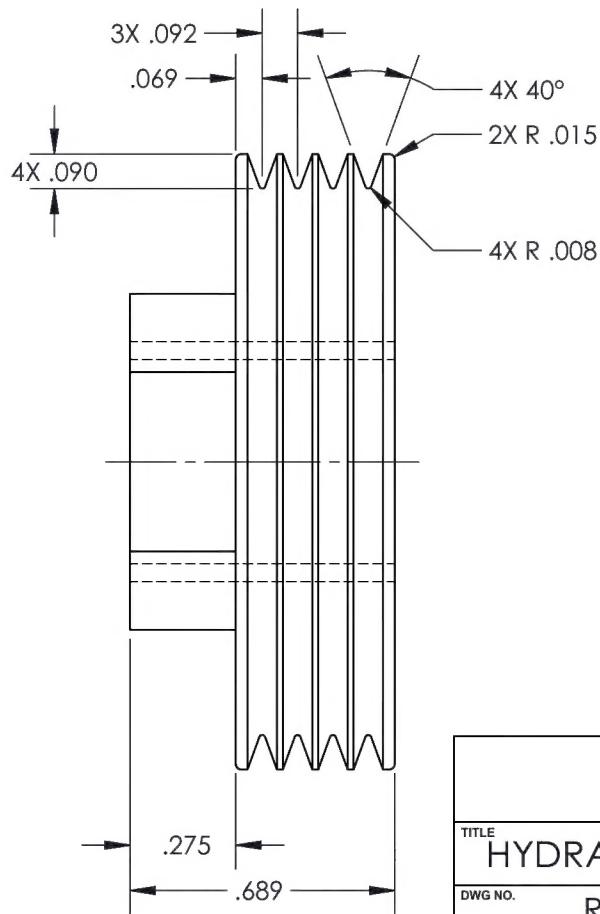
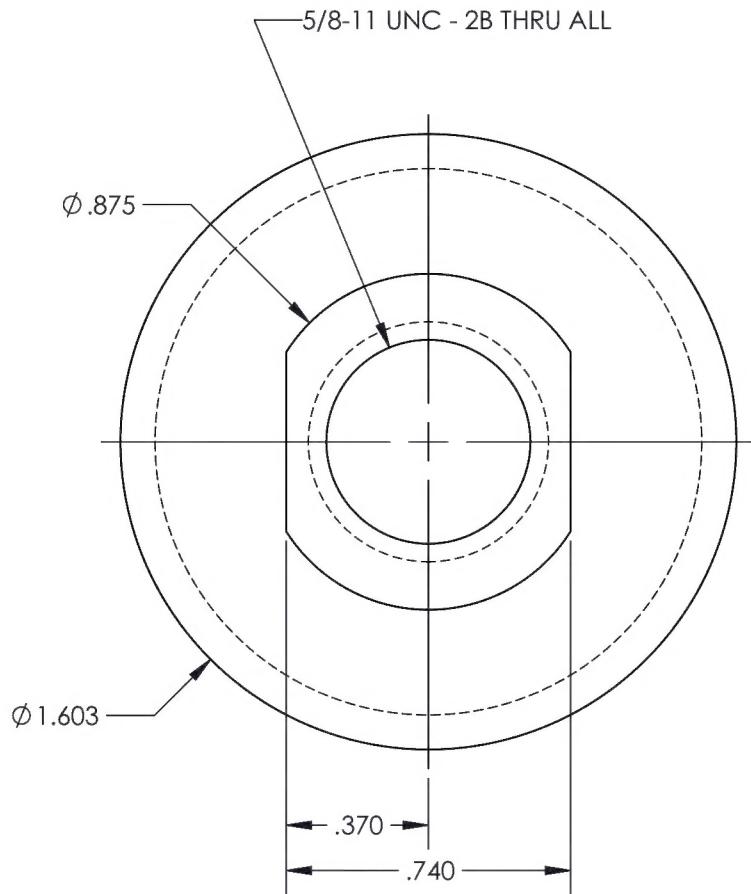
**DART**  
AEROSPACE

#### TITLE HYDRAULIC PUMP DRIVE TOOL

DWG NO.	RBEL135M-2905-101-07	REV 9
MAT'L	1018/1020 CR	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
HEAT	.XXX ± .005	FRACTIONS ± 1/8
TREAT	.XX ± .01	ANGLES ± 5°
FINISH	X ± .1	SURFACES = 125
SPEC	ASTM B633 TYPE I SC 2	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
DRAWN BY:	PERRITT	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
CHECKED:	DUERFELDT	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
OPPS APPR:	ANDERSON	USED ON MODEL
QA APPR:	LINDSAY	
APPROVED:	MACKOVJAK	EUROCOPTER EC135
SCALE	1:2	DATE 4/23/2010
		SHEET 6 OF 18

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		CHANGED MOTORS FROM FLEX #L3309FR TO MILWAUKEE #6116-33, ALSO CHANGED PULLEY SIZE TO ADJUST FOR THE 1,000 RPM DIFFERENCE. DRIVER PULLEY -09 WAS $\phi 1.495$ NOW $\phi 1.603$ .	5/12/2010	WP	DW



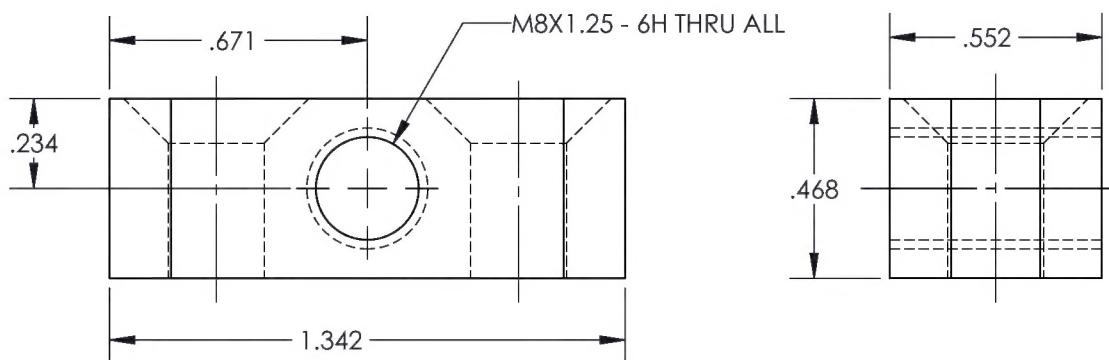
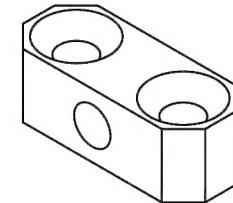
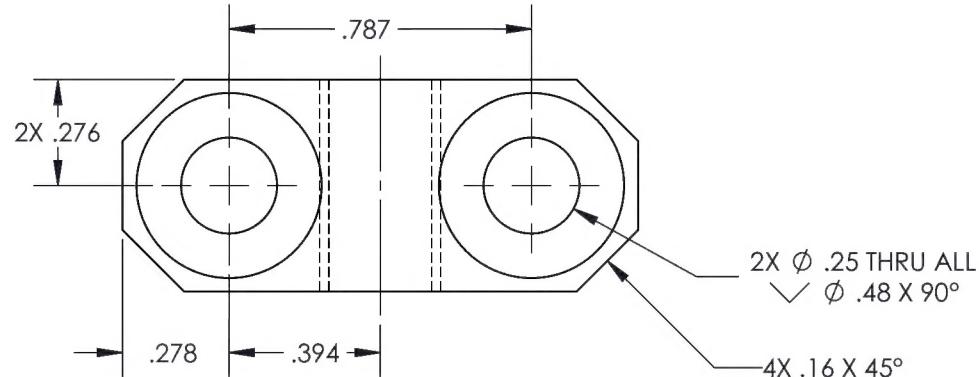
-09

DRIVE PULLEY

<b>DART</b> AEROSPACE	
<b>TITLE</b>	
<b>HYDRAULIC PUMP DRIVE TOOL</b>	
<b>DWG NO.</b>	<b>RBEL135M-2905-101-09</b>
<b>REV</b>	<b>9</b>
<b>MAT'L 6061</b>	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
<b>HEAT</b>	<b>.XXX <math>\pm .005</math></b>
<b>TREAT</b>	<b>FRACTIONS <math>\pm 1/8</math></b>
<b>FINISH</b>	<b>.XX <math>\pm .01</math></b>
<b>ANGLES <math>\pm 5^\circ</math></b>	
<b>SPEC</b>	<b>CLASS I</b>
<b>MIL-A-8625F, TYPE II, CLASS I</b>	
<b>DRAWN BY:</b>	<b>PERRITT</b>
<b>CHECKED:</b>	<b>DUERFELDT</b>
<b>OPPS APPR:</b>	<b>ANDERSON</b>
<b>QA APPR:</b>	<b>LINDSAY</b>
<b>USED ON MODEL</b>	
<b>APPROVED:</b>	<b>MACKOVJAK</b>
<b>EUROCOPTER EC135</b>	
<b>SCALE</b>	<b>2:1</b>
<b>DATE</b>	<b>4/23/2010</b>
<b>SHEET 7 OF 18</b>	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
5		ADDED -11 NICKLE PLATE THICKNESS .0004 - .0006.	12/20/2012	RJC	SE
9	16-0222	-11 CH'D DIM WAS .276 IS 2X .276, WAS 2X Ø.250 THRU ALL ✓ Ø.482 X 90° IS 2X Ø.25 THRU ALL ✓ Ø.48 X 90°, CH'D MATERIAL WAS 1018 IS A36/1018/1020 HR, CH'D FINISH WAS NICKEL PLATE IS ZINC PLATE ASTM B633 TYPE I SC2.	11/23/2016	RJC	SM



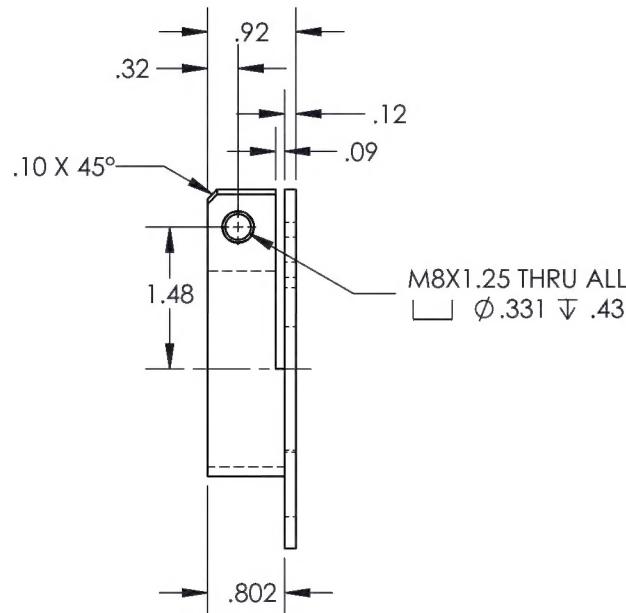
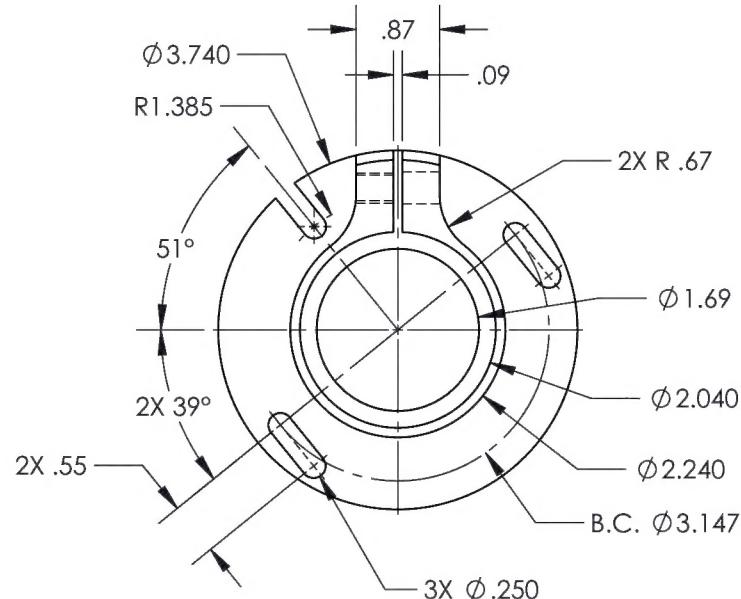
(-11)

CLAMP TOP

<b>DART</b> AEROSPACE	
TITLE	
HYDRAULIC PUMP DRIVE TOOL	
DWG NO.	
RBEL135M-2905-101-11	
REV	9
MAT'L A36/1018/1020 HR	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
HEAT	.XXX ± .005 FRACTIONS ± 1/8
TREAT	.XX ± .01 ANGLES ± 5°
FINISH	X ± .1 SURFACES = 125 ✓
SPEC ASTM B633 TYPE I SC 2	
DRAWN BY:	PERRITT
CHECKED:	DUERFELDT
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	MACKOVJAK
USED ON MODEL	
EUROCOPTER EC135	
SCALE	2:1
DATE	4/23/2010
SHEET 8 OF 18	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2		CHANGED -13 MOTOR CLAMP TO FIT NEW MOTOR.	9/14/2010	WP	DW
9	16-0222	-13 CH'D DIM WAS .09 CUT RELIEF IS .09 TWO INSTANCES.	11/23/2016	RJC	SM

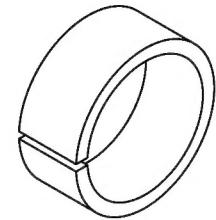
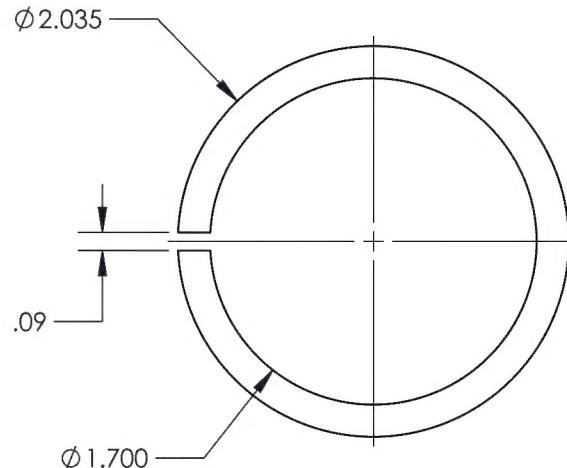
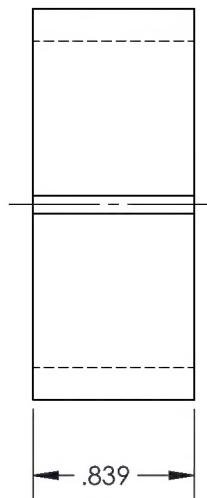


(-13)  
MOTOR CLAMP

<b>DART</b> AEROSPACE	
TITLE	
HYDRAULIC PUMP DRIVE TOOL	
DWG NO. RBEL135M-2905-101-13 REV 9	
MAT'L 6061 UNLESS OTHERWISE SPECIFIED	
HEAT DIMENSIONS ARE IN INCHES	
TREAT FRACTIONS $\pm \frac{1}{16}$	
FINISH ANGLES $\pm 5^\circ$	
SPEC CLEAR ANODIZE SURFACES = 125	
MIL-A-8625F, TYPE II, CLASS I ✓	
DRAWN BY: PERRITT	
CHECKED: DUERFELDT	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY USED ON MODEL	
APPROVED: MACKOVJAK EUROCOPTER EC135	
SCALE	1:2
DATE	4/23/2010
SHEET 9 OF 18	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
6		ADDED PART -14 USED WITH GRINDER MODEL MILWAUKEE #6117-33.	7/29/2013	CFS	DW
9	16-0222	-14 CH'D DIM WAS .09 CUT REF. IS .09, DELETED NOTE 1.	11/23/2016	RJC	SM

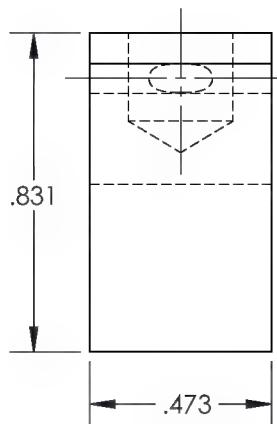
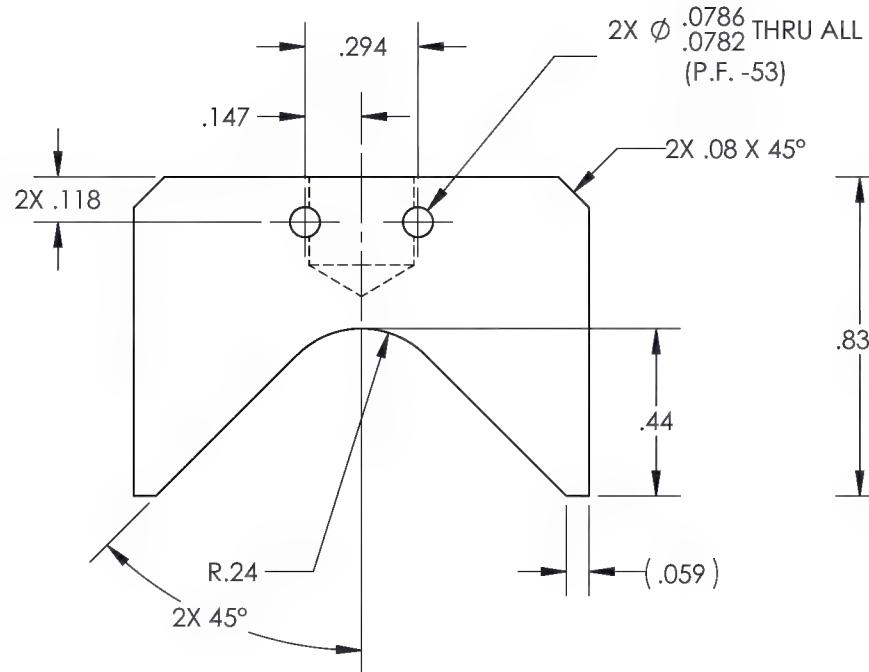
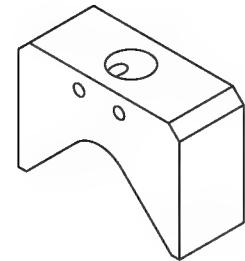
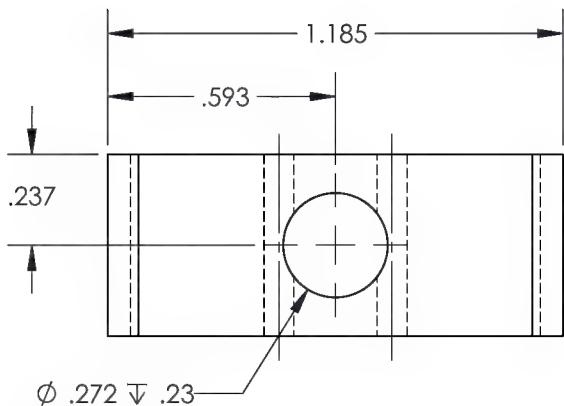


-14  
COLLAR

<b>DART</b> AEROSPACE	
TITLE	
HYDRAULIC PUMP DRIVE TOOL	
DWG NO. RBEL135M-2905-101-14 REV 9	
MAT'L 6061 UNLESS OTHERWISE SPECIFIED	
HEAT DIMENSIONS ARE IN INCHES	
TREAT FRACTIONS $\pm \frac{1}{16}$	
FINISH CLEAR ANODIZE ANGLES $\pm 5^\circ$	
SPEC MIL-A-8625F, TYPE II, CLASS I SURFACES = 125 ✓	
DRAWN BY: SMITH	
CHECKED: DUERFELDT	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY USED ON MODEL	
APPROVED: MACKOVJAK EUROCOPTER EC135	
SCALE 1:1	DATE 7/25/2013
SHEET 10 OF 18	

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REV			ECR			DESCRIPTION			DATE			INITIAL			APPROVED		
9	16-0222		<b>-15</b> CH'D DIM WAS 2X Ø.0786/.0782 THRU IS 2X Ø.0786/.0782 THRU ALL (P.F. -53).						11/23/2016			RJC			SM		



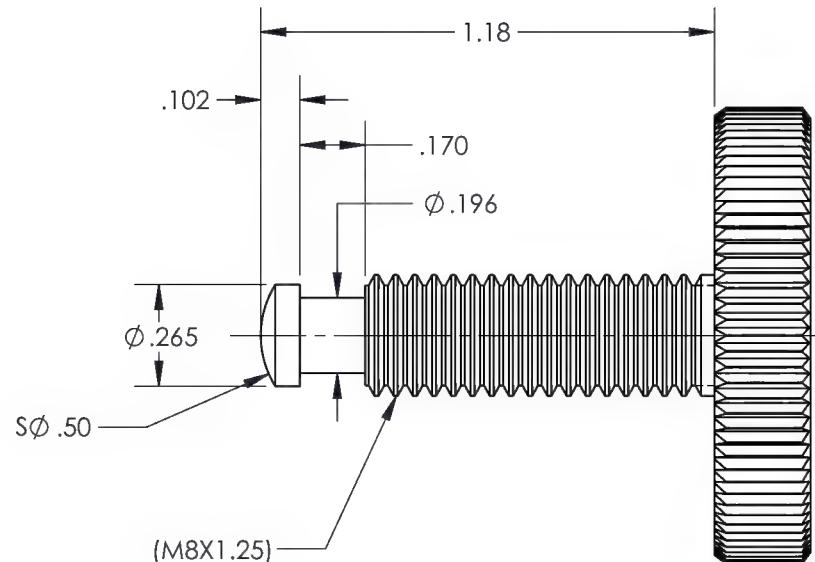
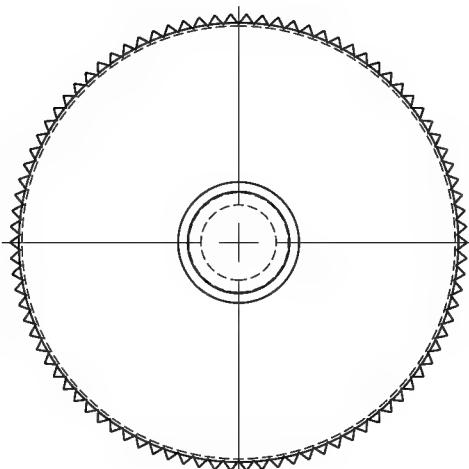
(-15)

CLAMP

DART AEROSPACE	
TITLE	
HYDRAULIC PUMP DRIVE TOOL	
DWG NO.	RBEL135M-2905-101-15
REV	9
MAT'L 6061	
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
.XXX ± .005 FRACTIONS ± 1/8	
.XX ± .01 ANGLES ± 5°	
X ± .1 SURFACES = 125 ✓	
SPEC MIL-A-8625F, TYPE II, CLASS I	
DRAWN BY:	PERRITT
CHECKED:	DUERFELDT
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	MACKOVJAK
USED ON MODEL	
EUROCOPTER EC135	
SCALE	2:1
DATE	4/23/2010
SHEET 11 OF 18	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
8		-17 CH'D DIMENSION WAS SØ.46 IS Ø.50, CH'D DIMENSION WAS 1.181 IS 1.18.	6/16/2014	DJN	RJC
9	16-0222	-17 CH'D DIM WAS M8X1.25 IS (M8X1.25).	11/23/2016	RJC	SM



**DART**  
AEROSPACE

**TITLE**  
**HYDRAULIC PUMP DRIVE TOOL**

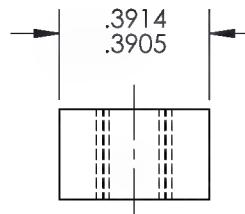
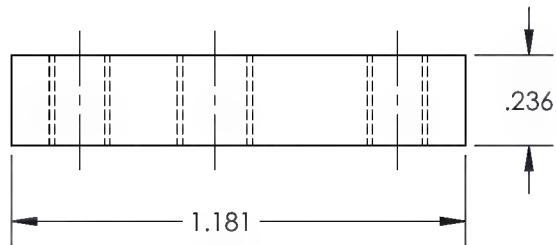
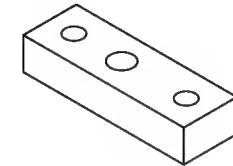
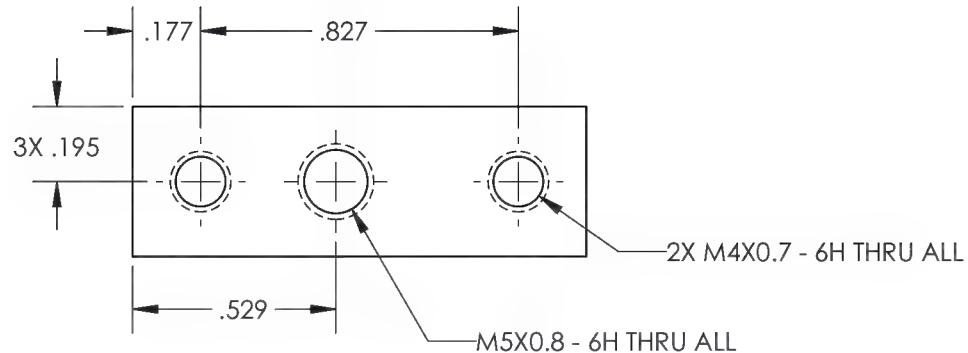
<b>DWG NO.</b>	<b>RBEL135M-2905-101-17</b>	<b>REV</b>
<b>9</b>		
<b>MAT'L S.S.</b>	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
<b>HEAT</b>	$.XXX \pm .005$ FRACTIONS $\pm 1/8$	
<b>TREAT</b>	$.XX \pm .01$ ANGLES $\pm 5^\circ$	
<b>FINISH</b>	$X \pm .1$ SURFACES = 125	
<b>SPEC</b>	✓	
<b>DRAWN BY:</b>	PERRITT	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
<b>CHECKED:</b>	DUERFELDT	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
<b>OPPS APPR:</b>	ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
<b>QA APPR:</b>	LINDSAY	USED ON MODEL
<b>APPROVED:</b>	MACKOVJAK	EUROCOPTER EC135
<b>SCALE</b>	2:1	<b>DATE</b> 4/23/2010
		<b>SHEET</b> 12 OF 18

(-17)

THUMB SCREW

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
5		ADDED -19 NICKLE PLATE THICKNESS .0004 - .0006. CH'D -19 DIM. FROM .392 S.F. TO LIMIT DIM. .3944 - .3930.	12/20/2012	RJC	SE
9	16-0222	-19 CH'D DIM WAS .195 IS 3X .165, CH'D MATERIAL WAS 1018 IS 1018/1020 CR. CH'D FINISH WAS NICKEL PLATE IS ZINC PLATE ASTM B633 TYPE 1 SC2.	11/23/2016	RJC	SM



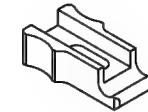
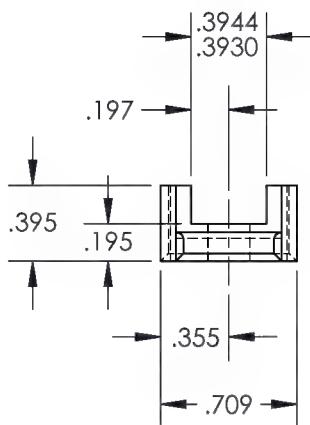
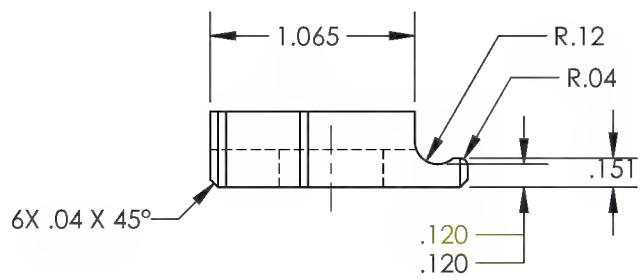
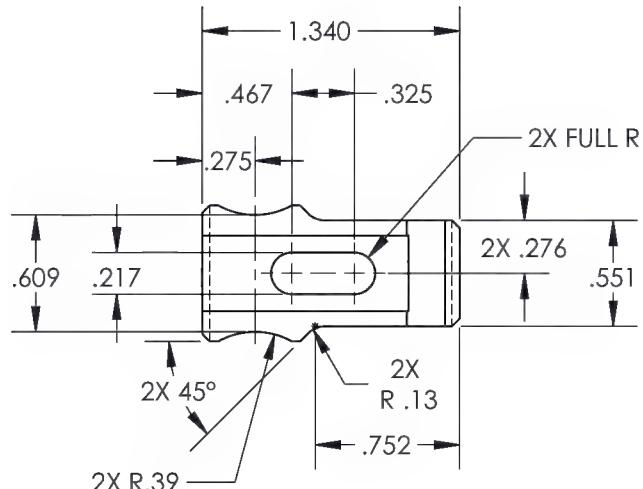
(-19)

SLIDE GUIDE

<b>DART</b> AEROSPACE	
TITLE	
HYDRAULIC PUMP DRIVE TOOL	
DWG NO. RBEL135M-2905-101-19 REV 9	
MAT'L 1018/1020 CR UNLESS OTHERWISE SPECIFIED	
HEAT DIMENSIONS ARE IN INCHES	
TREAT FRACTIONS $\pm \frac{1}{16}$	
FINISH ZINC PLATE ANGLES $\pm 5^\circ$	
SPEC ASTM B633 TYPE 1 SC 2 SURFACES = 125 ✓	
DRAWN BY: PERRITT	
CHECKED: DUERFELDT	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY USED ON MODEL	
APPROVED: MACKOVJAK EUROCOPTER EC135	
SCALE 2:1	DATE 4/23/2010
SHEET 13 OF 18	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2		-21 TO LIMIT .3914 - .3905. ADDED -21 NICKLE PLATE THICKNESS .0004 - .0006. CH'D -21 DIM. FROM .393. S.F.	12/20/2012	RJC	SE
7		-21 CH'D CORNER WAS NO RADIUS IS 2X R.13.	10/9/2013	CFS	GE
9	16-0222	-21 CH'D DIM WAS .276 IS 2X .276, DELETED DIM Ø.217, ADDED DIM .217, 2X FULL R, CH'D MATERIAL WAS 1018 IS 1018/1020 CR, CH'D FINISH WAS NICKEL PLATE IS ZINC PLATE ASTM B633 TYPE 1 SC2,	11/23/2016	RJC	SM



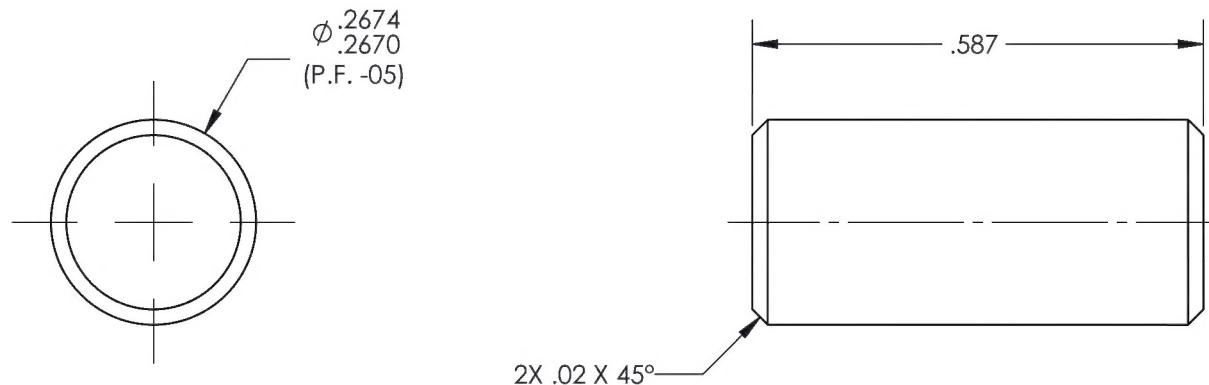
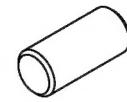
(-21)

SLIDE

DART AEROSPACE	
TITLE	
HYDRAULIC PUMP DRIVE TOOL	
DWG NO.	REV
RBEL135M-2905-101-21	
MAT'L 1018/1020 CR	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
HEAT	.XXX ± .005 FRACTIONS ± 1/8
TREAT	.XX ± .01 ANGLES ± 5°
FINISH	X ± .1 SURFACES = 125 ✓
SPEC	ASTM B633 TYPE 1 SC 2
DRAWN BY:	PERRITT
CHECKED:	DUERFELDT
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	MACKOVJAK
USED ON MODEL	
EUROCOPTER EC135	
SCALE	1:1
DATE	4/23/2010
SHEET 14 OF 18	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
5		CH'D -23 DIM. FROM BASIC .267 TO $\phi$ .2674 -.2670.	12/20/2012	RJC	SE
9	16-0222	-23 CH'D DIM WAS $\phi$ .2674/.2670 IS $\phi$ .2674/.2670 (P.F. -.05).	11/23/2016	RJC	SM



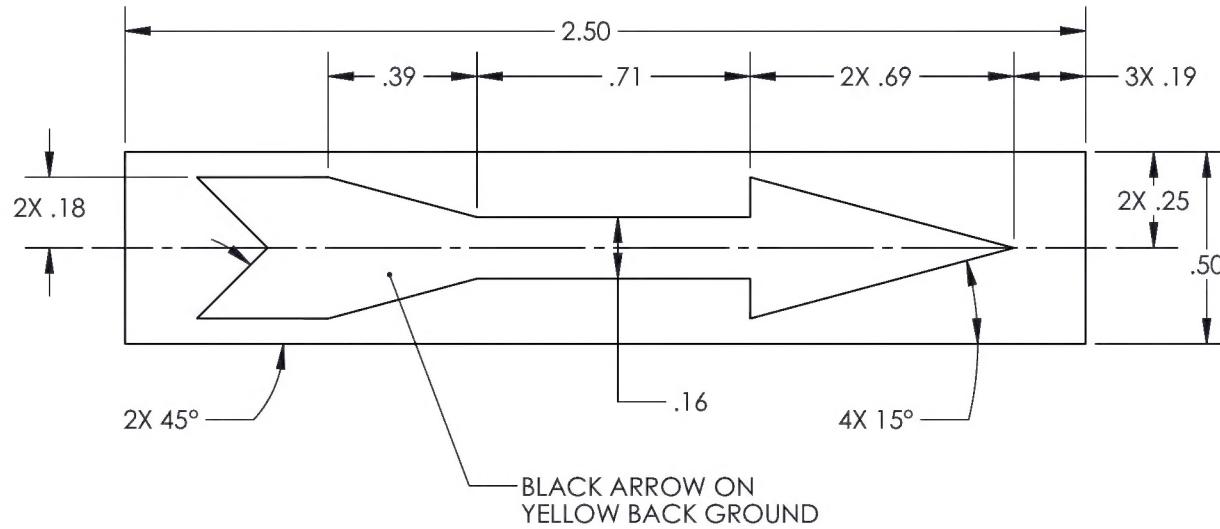
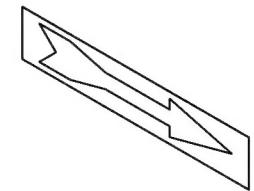
<b>DART</b> AEROSPACE	
TITLE	
HYDRAULIC PUMP DRIVE TOOL	
DWG NO. RBEL135M-2905-101-23 REV 9	
MAT'L 303/304 UNLESS OTHERWISE SPECIFIED	
HEAT DIMENSIONS ARE IN INCHES	
TREAT .XXX ± .005 FRACTIONS ± 1/8	
TREAT .XX ± .01 ANGLES ± 5°	
FINISH X ± .1 SURFACES = 125 ✓	
SPEC	
DRAWN BY: PERRITT	
CHECKED: DUERFELDT	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY USED ON MODEL	
APPROVED: MACKOVJAK EUROCOPTER EC135	
SCALE 4:1	DATE 4/23/2010
SHEET 15 OF 18	

(-23)

PIN

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
9	16-0222	-45 CH'D DWG TO SHEET METAL TOLERANCE.	11/23/2016	RJC	SM



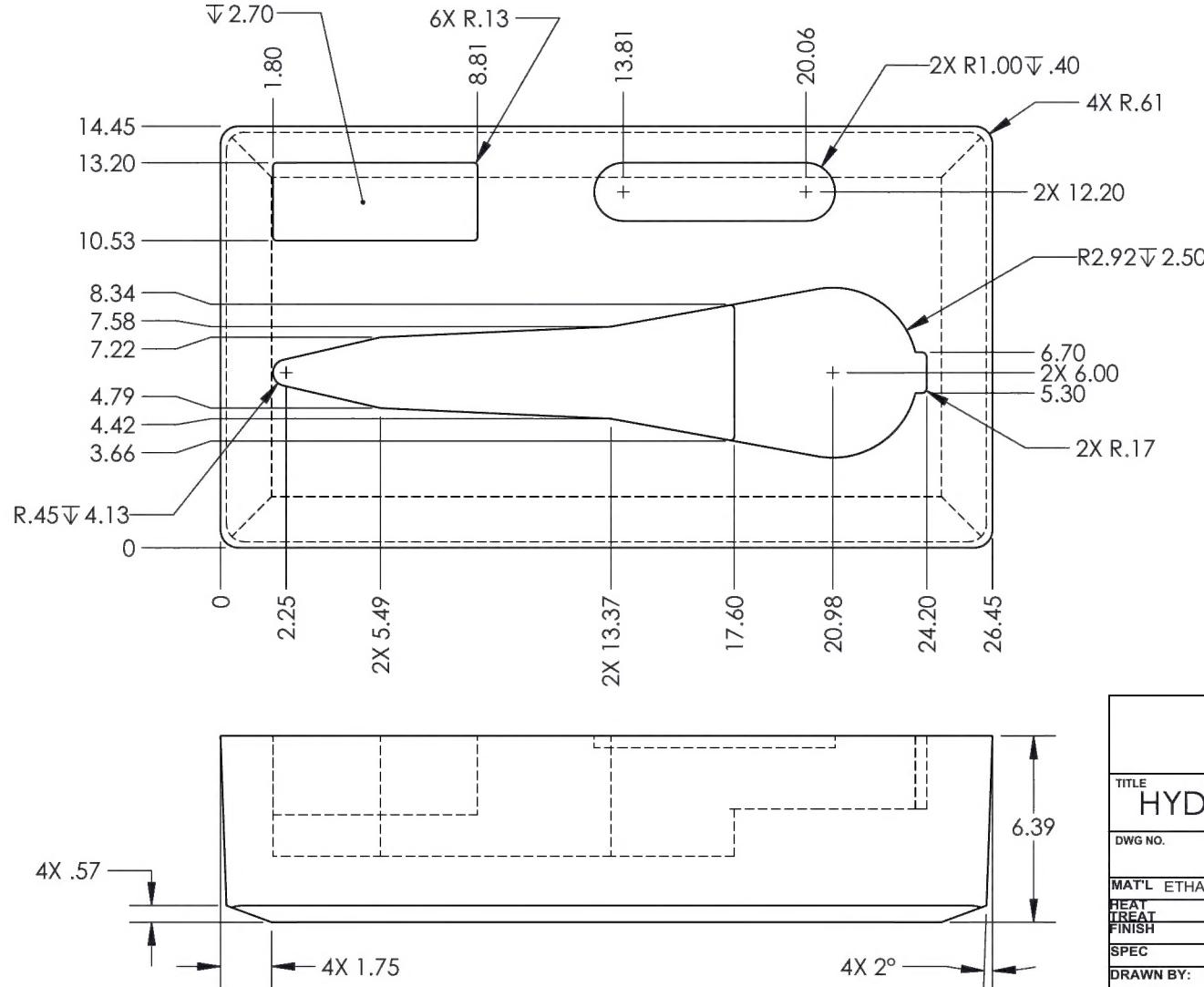
ARROW EMBLEM

(-45)

DART AEROSPACE	
TITLE	
HYDRAULIC PUMP DRIVE TOOL	
DWG NO.	RBEL135M-2905-101-45
REV	9
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
HEAT	.XXX ± .010 FRACTIONS ± 1/8
TREAT	.XX ± .03 ANGLES ± 1°
FINISH	X ± .1 SURFACES = 125 ✓
SPEC	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
DRAWN BY:	PERRITT
CHECKED:	DUERFELDT
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	MACKOVJAK
USED ON MODEL	
EUROCOPTER EC135	
SCALE	2:1
DATE	4/23/2010
SHEET 16 OF 18	

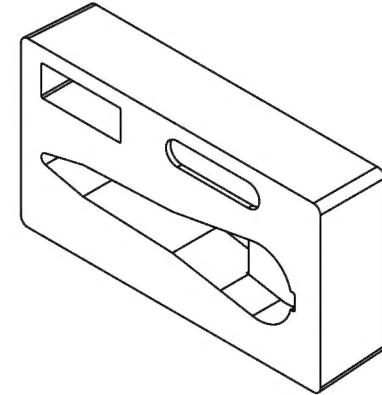
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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2A		ADDED OPTIONAL 2 UNIT KIT WITH HARD CASE, AND CHANGED FROM 5 PAGES TO 8.	9/16/2010	WP	
3		ADDED COMPARTMENT FOR HANDLES TO -101-B3 PER D.W.	12/10/2010	RJC	RW
9	16-0222	-57 CH'D FOAM SIZE FOR NEW CASE #APP-1605-E, FAND LAYOUT CONFIGURATION FOR ONE -00 HYDRAULIC PUMP DRIVE TOOL, CH'D DWG TO SHEET METAL TOLERANCE.	11/23/2016	RJC	SM



(-57)

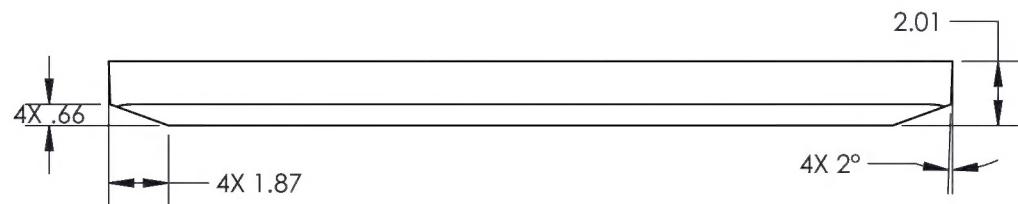
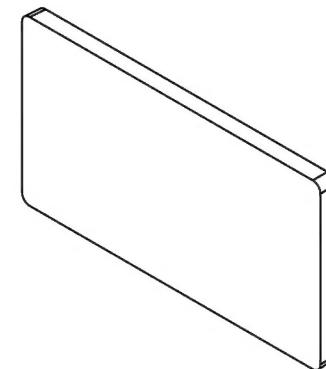
BOTTOM TOOL CUSHION



<b>DART</b> AEROSPACE	
TITLE <b>HYDRAULIC PUMP DRIVE TOOL</b>	
DWG NO. <b>RBEL135M-2905-101-57</b>	
REV <b>9</b>	
MATERIAL ETHAFOAM 220, BLACK	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
.XXX ± .010 FRACTIONS ± 1/8	
.XX ± .03 ANGLES ± 1°	
.X ± .1 SURFACES = 125 ✓	
SPEC	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY:	CLOUGH
CHECKED:	DUERFELDT
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	MACKOVJAK
USED ON MODEL	
EC135	
SCALE 1:6	DATE 11/23/2016
SHEET 17 OF 18	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
9	16-0222	-59 CH'D FOAM SIZE FOR NEW CASE #APP-1605-E, CH'D DWG TO SHEET METAL TOLERANCE.	11/23/2106	RJC	SM



(-59)

TOP FOAM

<b>DART</b> AEROSPACE	
<b>TITLE</b>	
<b>HYDRAULIC PUMP DRIVE TOOL</b>	
<b>DWG NO.</b>	<b>RBEL135M-2905-101-59</b>
<b>REV</b>	<b>9</b>
<b>MAT'L</b> ETHAFOAM 220, BLACK <b>UNLESS OTHERWISE SPECIFIED</b> <b>HEAT</b> .XXX ± .010 <b>DIMENSIONS ARE IN INCHES</b> <b>TREAT</b> .XX ± .03 <b>FRACTIONS ± 1/8</b> <b>FINISH</b> X ± .1 <b>ANGLES ± 1°</b> <b>SURFACES = 125</b>	
<b>SPEC</b> ✓ <b>DRAWN BY:</b> CLOUGH <b>CHECKED:</b> DUERFELDT <b>OPPS APPR:</b> ANDERSON <b>QA APPR:</b> LINDSAY <b>APPROVED:</b> MACKOVJAK <b>USED ON MODEL</b> <b>EC135</b>	
<b>SCALE</b>	<b>1:6</b>
<b>DATE</b>	<b>11/28/2016</b>
<b>SHEET 18 OF 18</b>	